

Choosing your Trig Method

In the following triangles, indicate which method you would use to solve for x:

a) Given a 90° Angle:

- Use SIN, COS, or TAN to find a missing side
- Use SIN^{-1} COS^{-1} TAN^{-1} to find a missing angle

b) Given an angle and the side opposite it:

- Use the SINE LAW: $\frac{\text{SIN} A}{a} = \frac{\text{SIN} B}{b} = \frac{\text{SIN} C}{c}$

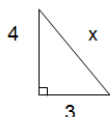
c) Given SAS or SSS:

- Use the COSINE LAW: $a^2 = b^2 + c^2 - 2bc \cos A$

d) Also use the Pythagorean Theorem

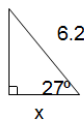
e) Also use the fact that the angles in a triangle add to 180°

(1)



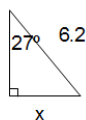
Method: _____
Formula: _____

(2)



Method: _____
Formula: _____

(3)



Method: _____
Formula: _____

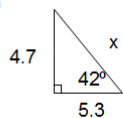
(4)



Method: _____
Formula: _____

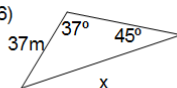
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(5)



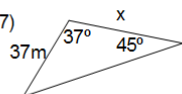
Method: _____
Formula: _____

(6)



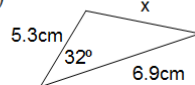
Method: _____
Formula: _____

(7)



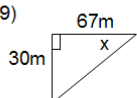
Method: _____
Formula: _____

(8)



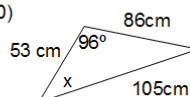
Method: _____
Formula: _____

(9)



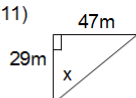
Method: _____
Formula: _____

(10)



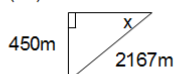
Method: _____
Formula: _____

(11)



Method: _____
Formula: _____

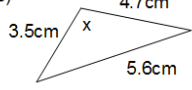
(12)



Method: _____
Formula: _____

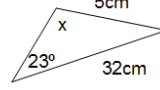
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(13)



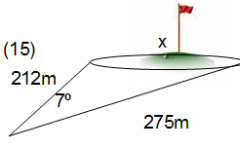
Method: _____
Formula: _____

(14)



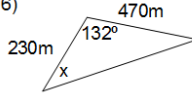
Method: _____
Formula: _____

(15)



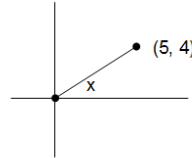
Method: _____
Formula: _____

(16)



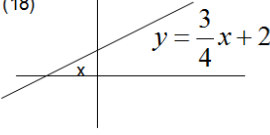
Method: _____
Formula: _____

(17)



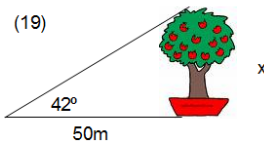
Method: _____
Formula: _____

(18)



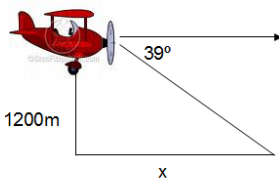
Method: _____
Formula: _____

(19)



Method: _____
Formula: _____

(20)



Method: _____
Formula: _____

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